## WATER QUALITY MEMORANDUM

## **Utah Coal Regulatory Program**

March 25, 2010

TO:		Internal File	Ĵ			
THRU	J	Daron R. Haddock, Permit Supervisor  James D. Smith, Environmental Scientist III  2009 Third Quarter Water Manitoring, Pacific Carp.	y 10de			
FROM	<b>1</b> :	James D. Smith, Environmental Scientist III	15 03(25)			
RE:		2009 Third Quarter Water Monitoring, PacifiCorp, Recurring Task ID #3378	Deer Creek M	fine. C/015/0018,		
MRP.	The D	Deer Creek Mine monitoring plan is described in App	endix A of Vo	olume 9 of the		
1.	Were data submitted for all of the MRP required sites?					
	Strea	ms	YES 🖂	NO 🗌		
	UPDI	ES	YES 🖂	NO 🗌		
	In-mi	ine	YES 🖂	NO 🗌		
	Sprin	ngs	YES 🖂	NO 🗌		
	NEW	NEWUA Meter 2 was not accessible during the 3rd Quarter 2009.				
	Wells	<b>3</b>	YES 🖂	NO 🗌		
2.	Were	all required parameters reported for each site?	YES 🖂	NO 🗌		
3.	Were	any irregularities found in the data?				
	Listed	Listed parameters were more than two standard deviations from the mean. An asterisk				

(\*) indicates this is not a parameter specifically required by the MRP.

Strea	DCR04 <u>August</u> : flow; DCR04 <u>September</u> : flow, Mg, and K; DCR06 <u>July and August</u> : flow; DCR06 <u>September</u> : flow and K.	YES 🔀	NO 🗌		
UPDI	ES  UT0023604-002 <u>July</u> : Na;  UT0023604-002 <u>August</u> : Na and field electrical  UT0023604-002 <u>September</u> : K and field electric		NO 🗌		
In-mi	ine	YES 🗌	NO 🖂		
Sprin	Burnt Tree July: Na Sheba July: Na and field electrical conductivity; 79-10 July: lab pH*; 79-15: field electrical conductivity, Ca, Mg, Na, bicarbonate as CaCO3, acidity* total alkalinity, lab electric conductivity*, TDS, and total-anions*; 79-29 July: field electrical conductivity; 79-32: field electrical conductivity; 79-34: Mg, Na, bicarbonate as CaCO3, Cl, and total alkalinity; 79-35 July: cation-anion percent difference; 79-38: Na and water temperature; 80-48: water temperature; 80-50: bicarbonate as CaCO3; 89-68: water temperature and Ca; JV-9: flow and acidity*;				
	MF-7: acidity*; MF-10: Mg, bicarbonate as CaCO3, total alkalin cation-anion percent difference; MF-19B: lab electric conductivity and TDS; MF-213: total alkalinity; MF-219: flow; RR 5: Ca and total hardness; RR 15: bicarbonate as CaCO3; RR 23A: bicarbonate as CaCO3, acidity*, and to SP1-29: total alkalinity:		conductivity,		

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UJV 101: lab electric conductivity and lab pH\*; EM POND: Ca, bicarbonate as CaCO3, and total alkalinity; GRANT SPRING: bicarbonate as CaCO3, acidity\*, and total alkalinity; LITLE BEAR: Ca and total hardness; MINE SITE 4: Mg. Wells YES 🖂 NO  $\square$ DCWR1: acidity\*. 4. On what date does the MRP require a five-year resampling of baseline water data. Baseline analyses were performed in 2001 and are to be repeated every 5 years; baseline analyses were done in 2006 and should be done again in 2011: this schedule applies to all the PacifiCorp mines, irrespective of the permit renewal date. For the Deer Creek Mine, renewal submittal is due 10/07/10, and renewal is due 02/07/11. 5. Based on your review, what further actions, if any, do you recommend? Although there are a large number of parameters that exceeded the mean by more than two standard deviations, there is no indication of trends or extremes in any of the parameter values. No further action recommended at this time. 6. Does the Mine Operator need to submit more information to fulfill this quarter's NO 🖂 monitoring requirements? YES 7. Follow-up from last quarter, if necessary. None. 8. Did the Mine Operator submit all the missing and/or irregular data (datum)? Yes.